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Bibliographic Information

Grinding aids for crystalline materials and for hydraulic binders. Aymard, Alain; Joseph, Christian. (Manufacture de Produits Chimiques PROTEX S. A., Fr.). Fr. Demande (1982), 19 pp. CODEN: FRXXBL FR 2485949 A1 19820108 Patent written in French. Application: FR 80-14877 19800701. CAN 97:132435 AN 1982:532435 CAPLUS (Copyright 2005 ACS on SciFinder (R))

Patent Family Information

<u>Patent No.</u>	<u>Kind</u>	<u>Date</u>	<u>Application No.</u>	<u>Date</u>
FR 2485949	A1	19820108	FR 1980-14877	19800701
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Abstract

The grinding agents for cement, clinker, and gypsum are $R_1R_2N(CH_2)_x[NR_3(CH_2)_y]_nNR_4R_5$, where n is 0-5, y and x are 2-6, $R_1 = CH_2CH_2OH$, $CH_2CH(OH)Me$, or $CH_2CH(OH)CH_2CH_3$, and $R_2, R_3, R_4, R_5 = H, CH_2CH_2OH, CH_2CH(OH)Me$, or $CH_2CH(OH)CH_2CH_3$. They are used as solns. or aq. dispersions at rates of 0.005-0.05% per dry wt. of the material being ground. Two suitable agents are wastes from aminoethylethanolamine manuf. having the following comps.: monoethoxylated, diethoxylated, dimethoxylated, and tetraethoxylated ethylenediamine 9 or 0; 45 or 48; 25 or 27; and 21 or 25%, resp.